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| FHWA | STATE | FED. AID PROJ. NO | SHEET NO. | TO SH |
| REGION NO | | | | |
| 3 | MD. | SEE TITLE SHEET | | |

Intersection Operation

The existing cabinet and controller are to be utilized. The phasing is to be modified to a NEMA five phase, semi-traffic-actuated mode. There will be an exclusive/permissive U-turn for the northbound movement of MD 355 included. The through movements for MD 355 will operate concurrently and have concurrent pedestrian phases across the east and west legs of the intersection. The Watkins Mill Road movements will operate alone and have an actuated pedestrian phase across the north leg of the intersection.

Construction Details

- A. Use existing handhole.
- B. Install 1 in. liquid tight, non-metallic conduit for loop detector sleeve.
- C. Install 6 ft. x 30 ft. quadrupole type vehicle loop detector (2-4-2 turns).
- D. Install 6 ft. x 6 ft. vehicle loop detector (3 turns).
- E. Use existing conduit.
- F. Use existing strain pole. Install pedestrian signal head and signs as shown.
- G. Use existing strain pole. Install pedestrian signal head, pedestrian pushbutton, and signs as shown.
- H. Use existing span wire. Install signs as shown.
- J. Use existing span wire, relocate existing signal heads, and sign. Install signal heads and signs as shown.
- K. Install 12 in. preformed white pavement marking for pedestrian crossing.
- L. Install 24 in. preformed white pavement marking for stop line.
- M. Existing cabinet/controller are to be utilized.
- N. Use existing handhole and splice new loopwire to existing 2-conductor aluminum shielded cable.
- O. Use existing loop detector sleeve.

Equipment List "A"

Equipment to be supplied by the SHA.

| Quantity | Unit | Description |
|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | EA | 12 in., two-way, two section (Symbolic WK, DW) adjustable pedestrian signal head – pole mount. |
| 2 | EA | 12 in., one-way, two section (Symbolic WK, DW) adjustable pedestrian signal head – pole mount. |
| 2 | EA | Pedestrian pushbutton assembly. |
| 1 | EA | 8 in./12 in., one-way, five section (8 in. R,Y,G / 12 in. YA,GA) adjustable traffic signal head – span wire mount. |
| 1 | EA | 12 in., one-way, five section (R,Y,YA,G,GA) adjustable traffic signal head – span wire mount. |
| 121 | SF | Sheet aluminum signing. [To consist of six 9 in. x 12 in. R10-3C and two 60 in. x 51 in. shield assembly signs for pole mounting, and six 16 in. x Var. D3-2, one 30 in. x 36 in. R3-5(U), and one 36 in. x 42 in. R10-12(U) signs for span wire mounting.] |

Equipment List "B"

Equipment to be furnished and/or installed by the Contractor.

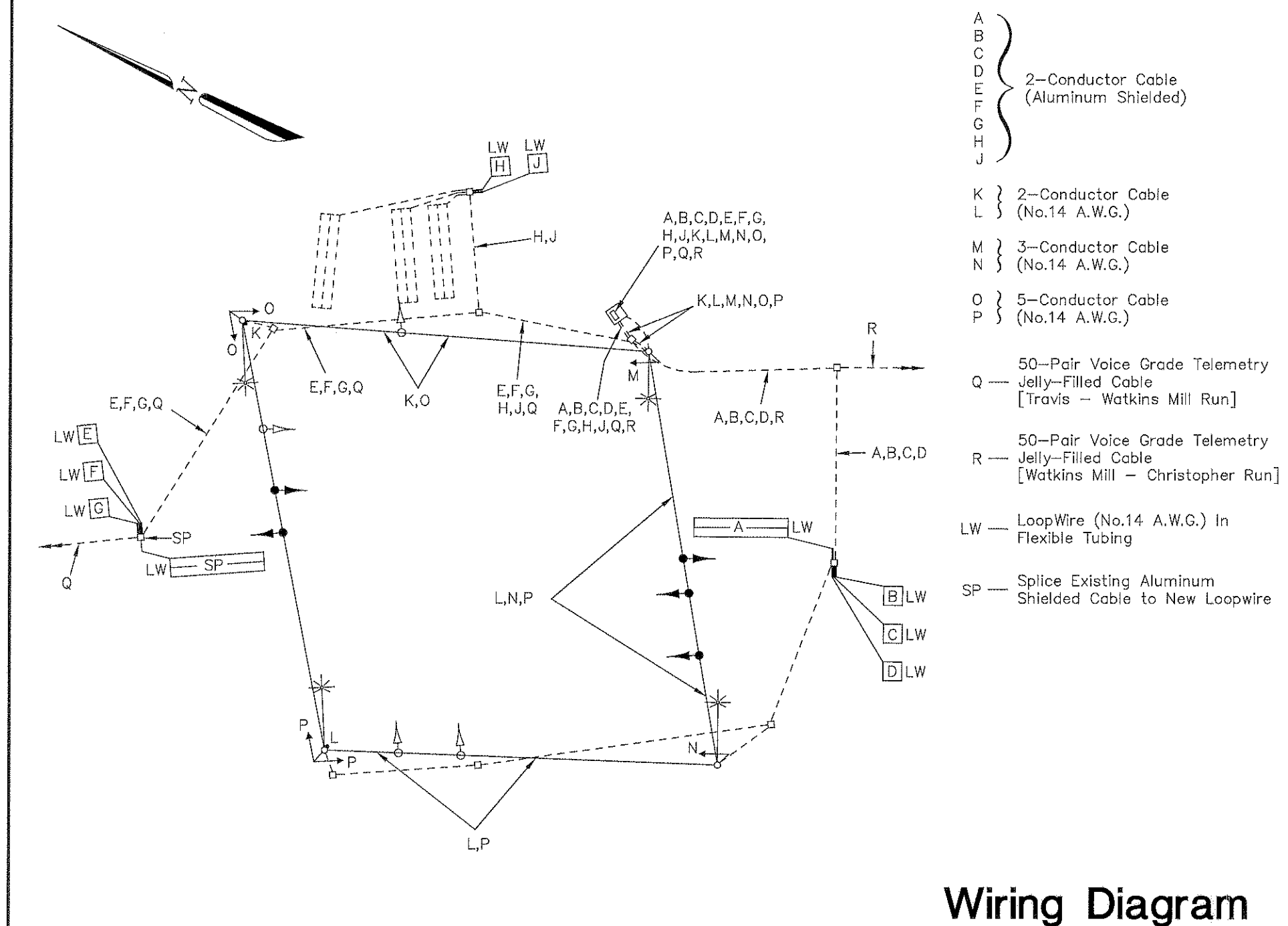
| Quantity | Unit | Description |
|----------|------|------------------------------------------------------------------------------|
| 950 | LF | 12 in. preformed white pavement marking for pedestrian crossing |
| 100 | LF | 24 in. preformed white pavement marking for stop line. |
| 600 | LF | Sawcut for signal loop detector. |
| 1650 | LF | Loop detector wire (No. 14 A.W.G.) encased in flexible tubing. |
| 75 | LF | 1 in. liquid tight, flexible, non-metallic conduit for loop detector sleeve. |
| 1525 | LF | 2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.). |
| 3 | EA | Relocate existing traffic signal head – span wire mount. |
| 1 | EA | Loop detector splice. |
| 10.5 | SF | Relocate existing sheet aluminum signing – overhead mount. |
| 74 | SF | Install sheet aluminum signing – overhead mount. |
| 47 | SF | Install sheet aluminum signing – pole mount. |
| 6 | EA | Install pedestrian signal head – pole mount. |
| 2 | EA | Install pedestrian pushbutton. |
| 200 | LF | 2-conductor electrical cable (No. 14 A.W.G.). |
| 275 | LF | 3-conductor electrical cable (No. 14 A.W.G.). |
| 650 | LF | 5-conductor electrical cable (No. 14 A.W.G.) |
| LS | LS | Removal of existing traffic signal equipment. |

Equipment List "C"

Equipment to be removed by the contractor and delivered to the MCDOT Systems Technical Center, 1283 Seven Locks Road, Building "C", Rockville, MD. 20852. A twenty-four (24) hour notice is required prior to delivery. Contact Mr. Emil Wolanin at (301) 217-2208.

| Quantity | Unit | Description |
|----------|------|----------------------|
| 2 | EA | Traffic signal head. |

Phase Chart



| REVISIONS | | | | | | | | | | APPROVALS | | | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|--|-----------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
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| | | | | | | | | | | CHIEF, SIGNAL DESIGN SECTION | | | | | | | | | |
| | | | | | | | | | | ASST. DISTRICT ENGINEER, TRAFFIC | | | | | | | | | |
| | | | | | | | | | | CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION | | | | | | | | | |
| | | | | | | | | | | DIRECTOR, OFFICE OF TRAFFIC & SAFETY | | | | | | | | | |